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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/652,194	08/31/2000	Daniel A. Steigerwald	LML-187/704	2649
75	90 08/30/2002			
Martin Novack Esq			EXAMINER	
17414 Via Capri East Boca Raton, FL 33496			CRANE, SARA W	
ŕ			ART UNIT	PAPER NUMBER
			2811	
			DATE MAILED: 08/30/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/652,194	STEIGERWALD ET AL.			
4.	Office Action Summary	Examiner	Art Unit			
		Sara W. Crane	2811			
Period fo	The MAILING DATE of this communication or Reply	on appears on the cover sheet w	ith the correspondence address			
A SH THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT usions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicat period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by eply received by the Office later than three months after the department of the set	ON.  FR 1.136(a). In no event, however, may a lion.  t, a reply within the statutory minimum of thin period will apply and will expire SIX (6) MON statute, cause the application to become Af	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
1)🛛	Responsive to communication(s) filed or	n <u>10 July 2002</u> .				
2a) <u></u>	This action is <b>FINAL</b> . 2b)	This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
·	on of Claims					
,—	Claim(s) <u>1-50</u> is/are pending in the application.					
_	4a) Of the above claim(s) <u>46-50</u> is/are withdrawn from consideration.					
5) 🗌	- , ,					
·	6)  Claim(s) <u>1-12, 17-30, 32-25, 38-45</u> is/are rejected.					
•	Claim(s) <u>13-16,31,36 and 37</u> is/are object					
	Claim(s) are subject to restriction on Papers	and/or election requirement.				
9) 🗌 🤈	The specification is objected to by the Exa	aminer.	•			
10)[	The drawing(s) filed on is/are: a)□	accepted or b) objected to by	the Examiner.			
	Applicant may not request that any objection	n to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).			
11) 🔲	The proposed drawing correction filed on	is: a) ☐ approved b) ☐ o	disapproved by the Examiner.			
	If approved, corrected drawings are required	d in reply to this Office action.				
12)	The oath or declaration is objected to by t	he Examiner.				
Priority (	ınder 35 U.S.C. §§ 119 and 120	. •				
13)	Acknowledgment is made of a claim for f	oreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
a)	☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority docu	ments have been received.				
	2. Certified copies of the priority documents have been received in Application No					
* 5	3. Copies of the certified copies of the application from the Internation Gee the attached detailed Office action for	nal Bureau (PCT Rule 17.2(a)).	-			
14) 🗌 A	Acknowledgment is made of a claim for do	mestic priority under 35 U.S.C.	§ 119(e) (to a provisional application).			
	)  The translation of the foreign language Acknowledgment is made of a claim for do	• • • • • • • • • • • • • • • • • • • •				
Attachmen	t(s)					
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9- mation Disclosure Statement(s) (PTO-1449) Paper N	48) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)			
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#### **DETAILED ACTION**

Page 1 of the specification has a blank that need to be filled in, for the serial number of a copending application to which reference is made.

#### Election/Restrictions

Applicant's election of claims 1-45 in Paper No. 6 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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Claims 1-12, 17-30, 32-35 and 38-45 are rejected under 35 U.S.C. 102(e) as being anticipated by Kondoh et al.

Each of the structural elements recited in the rejected claims is taught with respect to the cover figure of the Kondoh reference, which shows a light-emitting device having active layer 4 between n-type layer 3 and p-type layer 5 (column 3, lines 11-15). 7 and 101 are electrodes, with 101 being silver (column 4, line 36). The silver electrode is covered on its top and its sides with nickel layer 102 (column 4, line 41), exactly as disclosed with respect to Applicant's figure 12. Layer 103 is also a conductive material (column 4, line 47). Because the layer structure, materials, and biasing of the Kondoh device are exactly as taught with respect to Applicant's device, layer 102 of the Kondoh device will inherently function as a migration barrier for preventing migration of silver from electrode 101 onto the surface of semiconductor layer 5. Newly discovered properties of a prior art structure cannot serve to distinguish over that prior art structure.

Note with respect to i.e. claim 10 that Kondoh layer 102 encompasses the periphery of layer 101 (at the sides), where it also covers a portion of the semiconductor layer 5, as required by claim 17. With respect to claim 19, there is a step at each of the sides of layer 102, where it covers the sides of layer 101. With respect to claim 29, the sidewall portion of layer 102, contacting the vertical side of layer 101, would be "an edge protector portion," and the horizontal portion of layer 102 would be "a conductive guard sheet that covers said edge protector portion." Claims not specifically discussed here have limitations which parallel those limitations that are discussed, or recite limitations that are clearly anticipated by the Kondoh teaching.

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### Allowable Subject Matter .

Claims 13-16, 31 and 36-37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Reasons for allowance: The prior art does not teach or suggest spacing the guard ring layer from the p-electrode, biasing the guard ring layer with respect to the p-electrode, or incorporating a dielectric

as an edge protector.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (703) 308-4894.

The fax phone number for this Group is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist, whose telephone number is (703) 308-0956.

Sara W. Crane Primary Examiner Art Unit 2811